DEF.WENT-ACC-NO: 2000-450447

DEFWENT-WEEK: 200039

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TITLE: Supplement to the process for producing light candle

INVENTOR: LIN, G

PATENT-ASSIGNEE: LIN G[LINGI]

PRIORITY-DATA: 1990TW-0109525 (September 13, 1995)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE

PAGES MAIN-IPC

TW 373019 A November 1, 1999 N/A 009

C11C 005/00

APPLICATION-DATA:

FUB-NO APPL-DESCRIPTOR APPL-NO

APPL-DATE

TW 373019A N/A 1990TW-0109525

September 13, 1995

INT-CL (IPC): C11C005/00; C11C005/02

ABSTRACTED-PUB-NO: TW 373019A

BASIC-ABSTRACT: NOVELTY - A supplement to the process of

producing a novel

light candle which is prepared from 100% of hydrogenated

vegetable oil, mixed

with hardening oil and formed a solidified waxy candle under

technical control

over the temperature and melting, conducive to long time

lighting; because of

pure vegetable oil containing no wax, it burns without offensive

smog, no

poison and offers good smell.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

SUPPLEMENT PROCESS PRODUCE LIGHT CANDLE

LERWENT-CLASS: D23

CFI-CODES: D10-B03;

SECONDARY-ACC-NO:

11/04/2001, EAST Version: 1.02.0008

CFI Secondary Accession Numbers: C2000-137210

ANSWER 7 OF 11 HOAPLUS COPYRIGHT 2001 ACS Full Curs References 1994:137639 HCAPLUS 120:137639 Method of making a candle and composition thereof IN Lin, Kuo Lung Chen, Wen Chi, Taiwan PΑ Brit. UK Pat. Appl., 16 pp. SO CODEN: BAXXDU DTPatent English LA ICM C11C005-00 ΙC ICS C08L091-06 45-3 (Industrial Organic Chemicals, Leather, Fats, and Waxes) CC FAN.CNT 1 APPLICATION NO. DATE PATENT NO. KIND DATE ______ _____ GB 1991-27167 19930623 19911220 PΤ GB 2262537 A1 GB 2262537 В2 19951004 , Ав The method providing a candle which releases reduced smoke, odor, and toxic particles on burning includes heat melting a butter oil and a solidified oil, mixing the butter oil and the solidified oil, and cooling and solidifying the mixt. to provide the wax of the candle, the butter oil having m.p. $35-37^{\circ}$ and palmitic content ≤ 0.15 and the solidified oil having acid value <0.5, I value <2.0, sapon. value 195-198, m.p. $60\pm1^{\circ}$, and impurity content <0.2%. A **candle** was prepd. from a butter oil contg. palm oil 50-58, coconut oil 30-35, soybean oil 5-8, cotton seed oil 5-8, flavor 28, and other additives and a solidified oil contq. 80-90% palm oil and 10-20% soybean oil. ST candle manuf butter oil compn; solidified oil butter candle manuf IΤ Coconut oil Cottonseed oil Palm oil Soybean oil RL: USES (Uses) (butter oil contg., for manuf. of candles)

IT Candles

(manuf. of, from butter oil and solidified oil, with reduced smoke, odor, and toxic particles on burning)

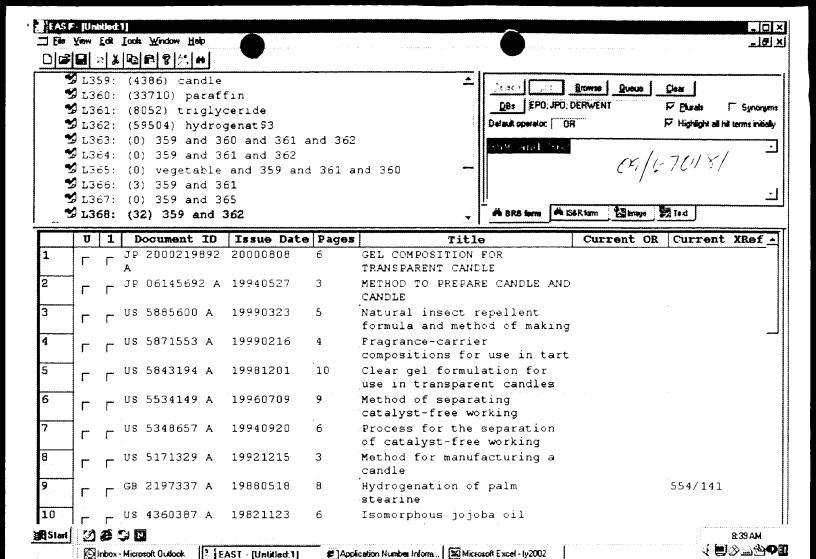
IT Palm oil

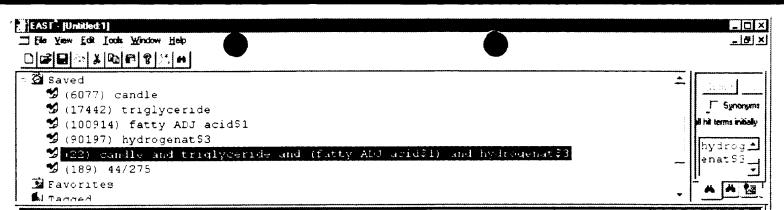
RL: USES (Uses)

(hydrogenated, butter oil contg., for manuf. of candles)

AMISWER 8 OF 11 HOAPLUS COPYRIGHT 2001 ACS

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Full
         References
   Text
   1989:556417 HCAPLUS
    111:156417
    Paraffin wax substitute
ΞN
    Phaddemohit, Tajohai; Boonvichitr, Saovaluck
    Thailand
FA
    U.S., 3 pp.
50
    CODEN: USXXAM
DT
   Patent
   English.
LA
ΙC
   ICM CCBL091-00
    ICS C11C003-12
NCL 106244000
    45-3 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
FAN.CNT 1
                                        APPLICATION NO. DATE
    PATENT NO.
                   KIND DATE
                          _____
                                         _____
    _____ ====
                                       US 1987-112352
                          19890627
                                                        19871022
    US 4842648
                    A
PΙ
   The title substitute, useful in the manuf. of shoe waxes, candles, waxed
AB
    paper, etc., which is completely compatible with paraffin and hydrocarbon
    waxes, comprises a mixt. of 1-5% glyceryl monostearate (an emulsifying
    agent which reduces the amt. of cracking during molding) and refined,
    tleached, and the remainder as deodorized palm stearin. This compn. has
    m.p. 55-62° and I value 0-5.
    paraffin wax substitute manuf; stearin glyceryl monostearate wax
    substitute
    Waxes and Waxy substances
ΤТ
    FL: USES (Uses)
       (glyceryl monostearate-refined palm stearin mixts. as,
       compatible with or as substitutes for paraffin waxes)
    Faraffin waxes and Hydrocarbon waxes, uses and miscellaneous
TT
     PL: USES (Uses)
       (substitutes for, refined palm stearin-glyceryl monostearate
       mixts. as, manuf. of)
     11099-07-3, Stearin
ΙT
     PL: USES (Uses)
       (mixts. with glyceryl monostearate, as substitutes for paraffin waxes)
     31566-31-1, Glyceryl monostearate
ΙΤ
     FL: USES (Uses)
       (mixts. with refined and bleached and deodorized palm
       stearin, as substitutes for paraffin waxes)
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	U	1	D	ocument	ID	Issue Date	Pages	Title	Current OR	Current XRef _
1	Г	Γ-	US Al	2001001	3195		6	Vegetable lipid-based composition and candle		
2	Г	, _	បទ	6284007	В1	20010904	6	Vegetable lipid-based composition and candle	44/275	431/288
3	Г	Г	US	6242509	в1	20010605	38	Gels including bioactive components	523/122	424/400 ; 424/404
4		Γ	US	6241967	В1	20010605	12	Process and device for the production of liquid,	424/9.321	424/450 ; 424/9.1
5	Г	Γ	US	6111055	A	20000829	39	Ester-terminated polyamide gels	528/310	424/64 , 424/66 —
6	Г	Γ	បទ	6063144	A	20000516		Non-paraffin candle composition	44/275	431/126 , 431/288
7	Г	Г	US	5998570	A	19991207	16	Ester-terminated polyamides of polymerized fatty acids	528/310	431/288 , 44/275
8	Г	٢	US	5952095	A	19990914	32	Intercalates and exfoliates formed with long chain	428/332	106/632 , 252/378R
9	Г	Г	US	5804613	A	19980908		Intercalates and exfoliates formed with monomeric	523/200	106/416 ; 106/484
10	Г	Г	បទ	5783657	A	19980721	15	Ester-terminated polyamides of polymerized fatty acids	528/310	524/600 ; 524/606
11	1		115	5637293	A	19970610	9	Preparation for enidermia	424/62	424/401
B Slast	Ø	#	S D	1						8:25 AM

Application Number Inform... | Microsoft Excel - ly 2002

STN Express

Minbox - Microsoft Outlook EAST - (Untitled:1)

●●●□●●

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09/4/2/14/
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CS Inst Mining, Krivoi Rog
SO Zavodsk. Lab. (1965), 31(9), 1109-10
DT Journal
LA Russian
=> s tw (P) pn
         2559 TW
          60 TWS
         2612 TW
               (TW OR TWS)
        21486 PN
         1337 PNS
        22752 PN
               (PN OR PNS)
L7
            4 TW (P) PN
=> d l4 1-7 all
L4 HAS NO ANSWERS
            0 SEA FILE=HCAPLUS ABB=ON PLU=ON TW373019/PN
=> d cost
COST IN U.S. DOLLARS
                                               SINCE FILE
                                                            TOTAL
                                                   ENTRY
                                                            SESSION
                                                           13.45
CONNECT CHARGES
                                                   13.30
NETWORK CHARGES
                                                    0.42
                                                              0.48
DISPLAY CHARGES
                                                              4.30
                                                    4.30
                                                  -----
                                                   18.02
                                                            18.23
                                                             0.88
CAPLUS FEE (5%)
                                                   0.88
                                                  _____
                                                   18.90
FULL ESTIMATED COST
                                                            19.11
IN FILE 'HCAPLUS' AT 10:20:37 ON 04 NOV 2001
=> s triglyceride and candle
        29052 TRIGLYCERIDE
        31885 TRIGLYCERIDES
        49927 TRIGLYCERIDE
                (TRIGLYCERIDE OR TRIGLYCERIDES)
         1607 CANDLE
         1360 CANDLES
         2520 CANDLE
               (CANDLE OR CANDLES)
L8
            6 TRIGLYCERIDE AND CANDLE
=> d 18 1-6 all
L8 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2001 ACS
Full-text
AN 2001:645561 HCAPLUS
   135:197796
ΤI
    Vegetable lipid-based composition and candle
   Tao, Bernard Y.
IN
PΑ
    Indiana Soybean Board, Inc., USA
SO U.S , 6 pp.
    CODEN: USXXAM
DT Patent
LA English
```

IC ICM C10L005-00

NCL 044275000 CC 51-12 (Fossil Fuels, Derivatives, and Related Products FAN CNT 2 PATENT NO. KIND DATE APPLICATION NO. DATE ______ US 1998-132991 US 6284007 B1 20010904 19981812 US 2001013195 A1 20010816 PFAI US 1998-132991 A1 19980812 US 2001-802137 20010308 A vegetable lipid-based compn. comprised of a vegetable lipid component and a petroleum wax is described. The vegetable lipid component may include a triglyceride or a free fatty acid/triglyceride mixt. The vegetable lipid-based compn. will burn significantly longer than com. candles. ST vegetable lipid candle IT Candles Coloring materials Odor and Odorous substances (vegetable lipid-based compn. and candle) Fatty acids, uses ΙT Glycerides, uses Hydrocarbon waxes, uses RL: MOA (Modifier or additive use); USES (Uses) (vegetable lipid-based compn. and candle) 57-10-3, Palmitic acid, uses 57-11-4, Stearic acid, uses 60-33-3, Linoleic acid, uses 112-80-1, Oleic acid, uses 112-85-6, Behenic acid 143-07-7, Lauric acid, uses 373-49-9, Palmitoleic acid 463-40-1, Linolenic acid 506-30-9, Arachidic acid 506-32-1, Arachidonic acid 544-63-8, Myristic acid, uses 557-59-5, Lignoceric acid RL: MOA (Modifier or additive use); USES (Uses) (vegetable lipid-based compn. and candle) RE.CNT 30 RΕ (1) Anon; JP 47030760 1968 (2) Anon; JP 60051765 1985 HCAPLUS (3) Anon; GB 2197337 1988 HCAPLUS (4) Baumer; US 1958462 1934 (5) Beardmore; US 4118203 1978 HCAPLUS (6) Cangardel; US 3871815 1975 HCAPLUS (7) Comstock; US 4608011 1986 (8) Drake; US 3429815 1969 HCAPLUS (9) Dulling; US 3630697 1971 HCAPLUS (10) Easterday; US 3384312 1968 (11) Elsamaloty; US 5578089 1996 (12) Kayfetz; US 4134718 1979 (13) Kirk-Other; Encyclopedia of Chemical Technology, 3rd Edition V24, P473 (14) Knowles; US 3613658 1971 (15) Lin; US 5171329 1992 (16) Luken; US 4759709 1988 (17) Miller; US 3645705 1972 HCAPLUS (18) Morrison; US 5879694 1999 HCAPLUS (19) Poulina; US 4813975 1989 HCAPLUS (20) Pretorius; US 4002706 1977 HCAPLUS (21) Requejo; US 5919423 1999 HCAPLUS (22) Reswick; US 2377106 1945 (23) Sapper; US 4507077 1985 (24) Saunders; US 4390590 1983 HCAPLUS (25) Taylor; US 4855098 1989 HCAPLUS (26) Thompson; US 2638411 1953 HCAPLUS (27) Tsaras; US 3844706 1974 (28) Will; US 1954659 1934

(19) Wilson; US 4614625 1986 HCAPLUS (30) Wilson; US 4693890 1987 HCAPLUS

ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2001 ACS

```
AN 2001:598353 HCAPLUS
   135:154914
DN
ΤI
    Vegetable lipid-based composition and candle
IN
    Tao, Bernard Y.
    Indiana Soybean Board, USA
    U.S. Pat. Appl. Publ., 6 pp., Cont. of U.S. Ser. No. 132,991.
    CODEN: USXXCO
   Patent
DT
LA English
IC ICM C10L005-00
NCL 044275000
   51-12 (Fossil Fuels, Derivatives, and Related Products)
FAN.CNT 2
    PATENT NO.
                   KIND DATE
                                      APPLICATION NO. DATE
                                       -----
    ______
                                      US 2001-802137 20010308
    US 2001013195 A1 20010816
US 6284007 B1 20010904
PRAI US 1998-132991 A1 19980812
                                       US 1998-132991 19980812
    A vegetable lipid-based compn. comprised of a vegetable lipid component
    and a petroleum wax is described. The vegetable lipid component may
    include a triglyceride or a free fatty acid/triglyceride mixt. The
    vegetable lipid-based compn. has properties that make it advantageous in
    candle prodn.
ST
    candle triglyceride fatty acid
IT Candles
       (vegetable lipid-based compn. and candle)
    Fatty acids, uses
    Glycerides, uses
    Hydrocarbon waxes, uses
    Paraffin waxes, uses
    RL: MOA (Modifier or additive use); USES (Uses)
       (vegetable lipid-based compn. and candle)
    57-10-3, Palmitic acid, uses 57-11-4, Stearic acid, uses 112-80-1,
    Oleic acid, uses
    RL: MOA (Modifier or additive use); USES (Uses)
       (vegetable lipid-based compn. and candle)
   ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2001 ACS
1.8
Full-text
AN 1998:31382 HCAPLUS
   128:66323
TI Process for producing a paraffin-based object, especially a perfumed
    Matzat, Norbert; Matthaei, Michael; Starke, Claus
IN
    Schuemann Sasol G.m.b.H. und Co. K.-G., Germany; Matzat, Norbert;
    Matthaei, Michael; Starke, Claus
    PCT Int. Appl., 18 pp.
SO
    CODEN: PIXXD2
DΤ
    Patent
LA
    German
    ICM C11C005-00
    ICS A61K007-46
CC
   62-5 (Essential Oils and Cosmetics)
FAN.CNT 1
                                       APPLICATION NO. DATE
    PATENT NO. KIND DATE
    -----
                                       ______
   WO 9748784 A1 19971224 WO 1997-EP2670 19970524
        W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
           DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ,
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LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL
            PT, RO, RU, SD, SE, SG, SI, SK, TU, TM, TR, TT, UA, UG, US, UZ
            VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR. GB,
            GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN,
            ML, MR, NE, SN, TD, TG
                                         DE 1997-19707909 19970227
    DE 19707909 A1 19980108
                                         CA 1997-2258678 19970524
    CA 2258678
                    AA 19971224
                     A1 19980107
                                         AU 1997-29604
                                                          19970524
    AU 9729604
                                         EP 1997-923997 19970524
    EP 906381
                     Al
                          19990407
        R. AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, SI, FI
                    A 19990810
                                       BR 1997-9825 19970524
    BR 9709825
                     T2 20010213
                                         JP 1998-502169 19970524
    JP 2001501983
                   B1 20010501
                                        US 1998-202755 19981216
    US 6224641
PRAI DE 1996-19624454 A 19960619
    DE 1996-19643719 A
                        19961023
    DE 1997-19707909 A 19970227
    WO 1997-EP2670 W
                          19970524
   In a method for prodn. of a perfumed candle or other paraffin-based
    object with a proportion of a perfume, the perfume is dissolved in a
    solvent contg. an ester, esp an org. ester such as a triglyceride, and
    the soln, is in turn added to or dissolved in paraffin. The perfume forms
    a solid soln. with the solvent; this soln. may contain a high proportion
    of perfume and is readily mixed homogeneously with powd. paraffin base.
    The powd. mixt. is formed into a candle or other object by compression.
    Thus, hardened palm oil (penetration 6 mm-1) contg. 30% essential oil was
    mixed 1:1 with paraffin paste to produce a product with penetration
    \sim 46 mm-1 at 30°.
ST
    paraffin wax perfumed candle
   Palm oil
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
       (hardened; process for producing a paraffin-based object, esp. a
       perfumed candle)
IΤ
    Waxes
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
       (micro-; process for producing a paraffin-based object, esp. a perfumed
       candle)
    Candles
    Perfumes
       (process for producing a paraffin-based object, esp. a perfumed
       candle)
    Paraffin waxes, biological studies
    Tallow
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
       (process for producing a paraffin-based object, esp. a perfumed
       candle)
    Esters, biological studies
    Glycerides, biological studies
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
        (solvents; process for producing a paraffin-based object, esp. a
       perfumed candle)
    ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2001 ACS
    1997:53532 HCAPLUS
    126:77354
DN
    Gelatinized plant oil for use as candles
ΤI
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Eini, Meir

IN

```
Israel
SO
    Israeli, 23 pp.
    CODEN: ISXXAQ
DT
    Patent
    English
LA
    ICM C22C005-00
IC
    51-12 (Fossil Fuels, Derivatives, and Related Products)
    Section cross-reference(s): 17
FAN.CNT 1
                                        APPLICATION NO. DATE
                    KIND DATE
    PATENT NO.
     ______
                                         _____
                    A1 19960618 IL 1994-109814 19940529
    IL 109814
PΙ
    A compn. for use in illumination, comprising: (a) at least one oil; and
     (b) at least one gelatinizing agent having 15 or more carbons, selected
     from the group consisting of fatty acids and fatty acid derivs., in a
     sufficiently high concn. to gelatinize the oil. The oil is selected from
     rose hip oil, wheat germ oil, apricot kernel oil, avocado oil, sunflower
    oil, evening primrose oil, jojoba oil, corn germ oil, mineral oil, and
    olive oil. The gelatinizing agent is selected from the alcs.
     1-pentadecanol, cetyl alc., 1-heptadecanol, stearyl alc., nonadecanol,
    arachidyl alc., heneicosanol, behenyl alc., lignoceryl alc.,
     1-pentacosanol, 1-hexacosanol, 1-heptacosanol, 1-octacosanol,
     1-tracontanol, 1-tetracontanol, or 1-pentacontanol or from the satd. fatty
     acids. Stearic acid, hexacosanic acid, stearic acid Et ester, stearic
     acid Me ester, stearic acid Pr ester, stearic anhydride, \alpha-hydroxy
     stearic acid, triglycerides, 12-hydroxy stearic acid,
     1-monopalmitoyl-rac-glyceride, 1,3-dipalmitin, 1,2-dipalmitoyl-3-myristoyl-
     rac-glycerol, and hexadecanedioic acid.
   candle gelatinized plant oil
    Fats and Glyceridic oils, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
       (apricot kernel; gelatinized plant oil for use as candles)
ΙT
    Candles
     RL: IMF (Industrial manufacture); PREP (Preparation)
       (gelatinized plant oil for use as candles)
     Avocado oil
     RL: TEM (Technical or engineered material use); USES (Uses)
       (gelatinized plant oil for use as candles)
IT
     Corn oil
     RL: TEM (Technical or engineered material use); USES (Uses)
        (gelatinized plant oil for use as candles)
     Evening primrose oil
TΤ
     RL: TEM (Technical or engineered material use); USES (Uses)
        (gelatinized plant oil for use as candles)
     Fatty acids, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (gelatinized plant oil for use as candles)
     Glycerides, uses
IΤ
     RL TEM (Technical or engineered material use); USES (Uses)
        (gelatinized plant oil for use as candles)
ΤТ
     Hydrocarbon oils
     RL: TEM (Technical or engineered material use); USES (Uses)
        (gelatinized plant oil for use as candles)
     Jojoba oil
     RL. TEM (Technical or engineered material use); USES (Uses)
        (gelatinized plant oil for use as candles)
ΙT
     Olive oil
     RL TEM (Technical or engineered material use); USES (Uses)
        (gelatinized plant oil for use as candles)
     Sunflower oil
ΙT
     RL TEM (Technical or engineered material use); USES (Uses)
        (gelatinized plant oil for use as candles)
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ΙT
    Wheat germ oil
    RL TEM (Technical or engineered material use ; USES Uses
        gelatinized plant oil for use as candles
     Fats and Glyceridic oils, uses
    RL TEM Technical or engineered material use; USES Uses
        rose hip; gelatinized plant oil for use as candles
     57-11-4, Octadecanoic acid, uses 106-14-9 111-61-5, Stearic acid ethyl
     ester 112-61-8, Stearic acid methyl ester 112-92-5, 1-Octadecanol
     502-52-3, 1,3-Dipalmitin 505-54-4, Hexadecanedioic acid 506-46-7,
    Hexacosanoic acid 506-51-4, Lignoceryl alcohol 506-52-5, 1-Hexacosanol
     557-61-9, 1-Octacosanol 593-50-0, 1-Triacontanol 629-22-1,
     \alpha-Hydroxy stearic acid 629-76-5, 1-Pentadecanol 629-96-9,
    Arachidyl alcohol 638-08-4, Stearic anhydride 661-19-8, Behenyl
     alcohol 1454-85-9, 1-Heptadecanol 2004-39-9, 1-Heptacosanol
    3634-92-2, Stearic acid propyl ester 26040-98-2, 1-Pentacosanol 26657-96-5 29592-89-0 36653-82-4, 1-Hexadecanol 40710-43-8,
     1-Pentacontanol 51227-32-8, Heneicosanal 52783-43-4, Nonadecanol
     164350-12-3, 1-Tetracontanol
     RL: TEM (Technical or engineered material use); USES (Uses)
        (gelatinized plant oil for use as candles)
    ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2001 ACS
L8
Full-text
   1989:56305 HCAPLUS
DN
    110:56305
    Study on candle millet seed oil (Pennisetum americanum L. Schum.)
ΤΙ
ΑU
    Lognay, G.; Marlier, M.; Baudart, E.; Severin, M.; Casimir, J.
    Lab. Chim. Gen. Org., Fac. Sci. Agron. Etat, Gembloux, Belg.
    Riv. Ital. Sostanze Grasse (1988), 65(4), 291-4
     CODEN: RISGAD; ISSN: 0035-6808
DT
    Journal
    French
LA
     17-11 (Food and Feed Chemistry)
CC
     Two cultivars of Millet seeds (P. americanum) were studied . The fatty
     acid profile was characterized by high levels of linoleic, oleic, and
     palmitic acids. Other minor acids with 20, 22, and 24 C atoms were also
     identified by GC-MS. The predominant triglycerides calcd. on the basis
     of the random 1-2 distribution were PLO, PLL, OLL, OOL, PLP, and LLL.
     GC-MS and GLC investigations on the sterol and tocopherol fractions
     revealed that the main constituents are sitosterol and campesterol for the
     former and \alpha- and \gamma-tocopherol for the latter. Nutritional
     properties in relation to oil compn. are also briefly discussed.
    millet seed oil compn; tocopherol millet seed oil; triglyceride millet
     seed oil; fatty acid millet seed oil; sterol millet seed oil
    Fatty acids, biological studies
     Glycerides, biological studies
     Hydrocarbons, biological studies
     Lipids, biological studies
     Tocopherols
     RL: BIOL (Biological study)
        (of millet seed oil, variety in relation to)
     Steroids, biological studies
     RL: BIOL (Biological study)
        (hydroxy, of millet seed oil, variety in relation to)
     Glycerides, biological studies
     RL BIOL (Biological study)
        (mono-, of millet seed oil, variety in relation to)
     Oils, glyceridic
     RL PRP (Properties)
        pearl millet seed, compn. of, variety in relation to)
     Lipids, biological studies
     RL BIOL (Biological study)
```

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(polar, of millet seed oil, variety in relation to)
     57-88-5, Cholesterol, biological studies 59-02-9, \alpha-Tocopherol
     83-46-5, \beta-Sitosterol 83-48-7 119-13-1, \delta-Tocopherol
     122-32-7 148-03-8, \beta-Tocopherol 474-62-4, Campesterol
                                                                 481-19-6,
     \Delta^{-}-Stigmasterol 53?-40-6 1°21-51-3, \alpha-Tocotrienol
                             13472-36-1, Δ5-Avenasterol
     7616-22-0, y-Tocopherol
                 26836-30-6
                              26836-31-7
                                           26836-32-8 26836-35-1
     23290-26-8
                                          26836-39-5
     26836-36-2
                 26836-37-3
                              26836-38-4
                                                         26836-40-8
                             28409-94-1
                                          28880-78-6 29590-02-1
     27071-84-7
                 28409-91-8
     29661-35-6
     RL BIOL (Biological study)
        tof millet seed oil, variety in relation to-
L8
    ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2001 ACS
Full-text
     1980:145416 HCAPLUS
AN
    92 145416
DN
ΤI
    Utilization of protected and unprotected rapeseed by lactating dairy cows
ΑU
    Christensen, David A.; Cochran, Marlene; Steacy, G.
    Dep. Anim. Poult. Sci., Univ. Saskatchewan, Saskatoon, SK, Can.
     Proc. Int. Rapeseed Conf., 5th (1979), Meeting Date 1978, Volume 2, 217-19
     Publisher: Dr. Goesta Andersson, Svaloev, Swed.
    CODEN: 42TCAX
DТ
    Conference
    English
LA
    18-3 (Animal Nutrition)
     Section cross-reference(s): 4
    Cows given low-forage control (35% alfalfa-bromegrass hay), high-forage
     control (50% hay), low forage feed contg. 8% H2CO [50-00-0]-treated
     soybean-tallow mixt., or 8% H2CO-treated low-glucosinolate (cultivar
     Tower) rapeseed had milk prodns. of 28.6, 27.3, 30.4, and 31.7 kg/day,
     resp. The treated rapeseed-contg. feed produced higher milk fat and
     better feed efficiency than the other test materials. Cows given similar
     feeds, but with unprotected soybean meal (2.2% fat), 6.3 or 12.6% cultivar
     Candle rapeseed (5 and 8% fat, resp.), or 11.2% cultivar Tower rapeseed
     (8% fat) had milk yields of 27.7, 27.6, 26.8, and 25.7 kg/day, resp.
     Those given the rape-contg. feeds all had significantly higher plasma
     cholesterol [57-88-5] and triglyceride levels.
    rapeseed formaldehyde cow milk; protein rape formaldehyde cow milk; lipid
    rape formaldehyde cow milk; cholesterol cow feed rapeseed; plasma lipid
     cow rape feed
TΤ
    Cattle
        (feeding expt. on cows, with formaldehyde-treated rape)
ΙT
    Brassica campestris
    Rape
        (feeding expt. with formaldehyde-treated, on dairy cows)
    Lipids
ΙT
     RL: BIOL (Biological study)
        (formaldehyde-protected, of rapeseed, feeding expt. with, on dairy
        cows)
    Glycerides, biological studies
    RL: BIOL (Biological study)
        (of blood plasma, of cow, rapeseed of feed effect on)
    Milk
ΙT
        (prodn. of, feeding expt. with formaldehyde-treated rape protein on)
    57-88-5, biological studies
    RL: BIOL (Biological study)
        (of blood plasma, of cow, rapeseed of feed effect on)
    50-00-0, biological studies
    RL: BIOL (Biological study)
```

(rapeseed treated with, feeding expt. with, on dairy cows)

=> d his FILE 'HOME' ENTERED AT 10:16:31 ON 04 NOV 2001; FILE 'HCAPLUS' ENTERED AT 10:16:41 ON 04 NOV 2001 0 S TW373019/PN Ll 0 S TW0373019/PN L3 0 S TW373019/9N 0 S TW373019/PN L4 2612 S TW L5 4 S L5 AND PN Lé L7 4 S TW (P) PN 6 S TRIGLYCERIDE AND CANDLE => s palm and candle 10450 PALM 680 PALMS 10712 PALM (PALM OR PALMS) 1607 CANDLE 1360 CANDLES 2520 CANDLE (CANDLE OR CANDLES) 11 PALM AND CANDLE L9 => d 19 1-11 all ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2001 ACS Full-text 2001:426985 HCAPLUS 135:168611 DN Dimethyl ether (DME). Assessment of viscosity using the new volatile fuel viscometer (VFVM) Sivebaek, Ion M.; Sorenson, Spencer C.; Jakobsen, Joergen Technical University of Denmark, Den. Soc. Automot. Eng., [Spec. Publ.] SP (2001), SP-1632(State of Alternative SO Fuel Technologies 2001), 1-9 CODEN: SAESA2; ISSN: 0099-5908 PB Society of Automotive Engineers DT Journal English LA 51-12 (Fossil Fuels, Derivatives, and Related Products) Section cross-reference(s): 52 This paper describes the development and test of a viscometer capable of handling di-Me Ether (DME) and other volatile fuels. DME has excellent combustion characteristics in diesel engines but the injection equipment can break down prematurely due to extensive wear when handling this fuel. It was established, in earlier work, that the wear in the pumps is substantial even if the lubricity of DME is raised to a believed acceptable level using anti-wear additives. An influence of the viscosity on the wear in the pumps was suspected. The problem, up to now, was that the viscosity of DME has only been estd. or calcd. but never actually measured. In the present work a volatile fuel viscometer (VFVM) was developed. It is of the capillary type and it was designed to handle DME, pure or with additives. The kinematic and dynamic viscosities of pure DME

were measured at 0.185 cSt and 0.122 cP at 25° resp. The VFVM

established that low concns. of additives do not affect the viscosity of DME significantly. This is the case even when the additive has a high viscosity or is solid at ambient temp. The viscosity of DME blends can reach that of diesel oil but only when the additive is present in large proportions. It is not believed that reasonably additive-contg. DME can

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reach the same viscosity and lubricity as diesel bil. The soln, is rather
     to design the pumps so they can handle pure DME.
    dimethyl ether viscosity volatile fuel viscometer
ST
    Rape oil
    RL: MOA (Modifier or additive use); USES (Uses)
        (Me esters; assessment of viscosity of di-Me ether using volatile fuel
    Candles
    Diesel engines
    Diesel fuel substitutes
     Injectors
     Viscometers
        (assessment of viscosity of di-Me ether using volatile fuel viscometer
TΤ
    Castor oil
    Lard
      Palm oil
    RL: MOA (Modifier or additive use); USES (Uses)
        (assessment of viscosity of di-Me ether using volatile fuel viscometer)
     Fuel additives
ΙT
        (lubricity; assessment of viscosity of di-Me ether using volatile fuel
        viscometer)
     291291-67-3, Lubrizol LZ 539N
     RL: MOA (Modifier or additive use); USES (Uses)
        (assessment of viscosity of di-Me ether using volatile fuel viscometer)
    115-10-6, Dimethyl ether
     RL: PRP (Properties); TEM (Technical or engineered material use); USES
        (assessment of viscosity of di-Me ether using volatile fuel viscometer)
RE.CNT 19
RE
(1) Anon; ASTM Standard D446-74
(2) Anon; DEA Mineraloel AG Handbook DME 99.99
(3) Anon; ISO Standard 1997, 12156
(4) Anon; Standard ISO 1994, 3105
(5) Briant, J; Rheological Properties of Lubricants 1989
(6) Christensen, R; SAE Paper 1997, 971665
(7) Einstein, A; Dover Publications 1956
(8) Fleisch, T; SAE Paper 1995, 950061
(9) Goering, C; Transactions of the ASAE 1982, P1472 HCAPLUS
(10) Hansen, J; SAE Paper 1995, 950063
(11) Japar, S; International Journal of Chemical Kinetics 1990, V22, P1257
   HCAPLUS
(12) Kajitani, S; SAE Paper 1997, 972973
(13) Lacey, P; SAE Paper 2000, 2000-01-1804
(14) Lacey, P; SAE Paper 2000, 2000-01-1917
(15) Nielsen, K; Fall Technical Conference 1999, V33-1(ASME Paper 99-ICE-217
    ICE), P145
(16) Reid, R; The Properties of Gases and Liquids. Fourth Edition 1987
(17) Sivebaek, I; Proceeding of the 9th Nordic Symposium on Tribology -
   NORDTRIB 2000 - At Porvoo 2000
(18) Sivebaek, I; SAE Paper 2000, 2000-01-2970
(19) Sorenson, S; SAE Paper 1995, 950064
L9 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2001 ACS
AN 2000:316631 HCAPLUS
DN
   132:323795
ΤI
   Non-paraffin candle composition
   Calzada, Jose Francisco; Upadhyaya, Janardan
SO U.S., 4 pp.
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CODEN: USXXAM
DT Patent
LA English
    ICM 010L005-00
    ICS F23D003-16
NGL 044275000
CC 51-12 (Fossil Fuels, Derivatives, and Related Products
FAN.CNT 1
                    KIND DATE
                                       APPLICATION NO. DATE
    .CM TMETAG
                                        _____
    _____
   US 6063144 A 20000516 US 1999-255951 19990223
PΙ
AB A substantially non-paraffin combustible candle compn. consists
    essentially of at least 30 parts by wt. of stearic acid, at least 5 parts
    by wt. of vegetable-derived wax having a m.p. of at least 50°.,
    C-50 parts by wt. of at least one vegetable oil, 0 to 10 parts by wt. of
    at least one fragrance and 0 to 1 part by wt. of at least one oxidn.
    inhibitor.
    nonparaffin wax candle vegetable oil
ST
    Waxes
    RL: TEM (Technical or engineered material use); USES (Uses)
       (arrayan; non-paraffin candle compn.)
    Castor oil
    RL: TEM (Technical or engineered material use); USES (Uses)
       (hydrogenated; non-paraffin candle compn.)
    Antioxidants
ΤT
      Candles
       (non-paraffin candle compn.)
    Candelilla wax
    Carnauba wax
    Coconut oil
    Corn oil
    Cottonseed oil
      Palm oil
     Sovbean oil
     Sunflower oil
     RL TEM (Technical or engineered material use); USES (Uses)
       (non-paraffin candle compn.)
IΤ
    Waxes
    RL: TEM (Technical or engineered material use); USES (Uses)
       (sugarcane; non-paraffin candle compn.)
ΙT
     RL: TEM (Technical or engineered material use); USES (Uses)
       (vegetable-derived; non-paraffin candle compn.)
IT
    Sugarcane
    RL TEM (Technical or engineered material use); USES (Uses)
      (wax; non-paraffin candle compn.)
    57-11-4, Stearic acid, uses
     RL TEM (Technical or engineered material use); USES (Uses)
       (non-paraffin candle compn.)
RE.CNT 6
(1) Cangardel; US 3871815 1975 HCAPLUS
(2) Daling; US 3630697 1971 HCAPLUS
(3) Easterday; US 3843312 1974
(4) Knowles; US 3613658 1971
(5) Morrison; US 5879694 1999 HCAPLUS
(6) Requejo; US 5919423 1999 HCAPLUS
L9 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2001 ACS
Full-text
AN 1998:31382 HCAPLUS
DN 128:66323
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Process for producing a paraffin-based object, especially a perfumed
    candle
   Matzat, Norbert; Matthaei, Michael; Starke, Claus
   Schuemann Sasol G.m.b.H. und Co. K.-G., Germany; Matzat, Norbert;
    Matthaei, Michael; Starke, Claus
30
   PCT Int. Appl., 18 pp.
    CODEN: PIXXD2
DТ
    Patent
    German
LA
    IGM C11C005-00
    ICS A61K007-46
CC
   62-5 (Essential Oils and Cosmetics:
FAN.CNT 1
    PATENT NO.
                   KIND DATE
                                       APPLICATION NO. DATE
     ______
                                        -----
    WO 9748784 A1 19971224 WO 1997-EP2670 19970524
        W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
            DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ,
            LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
            PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ,
            VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB,
            GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN,
            ML, MR, NE, SN, TD, TG
                   Al 19980108
                                       DE 1997-19707909 19970227
    DE 19707909
                    AA 19971224
                                       CA 1997-2258678 19970524
    CA 2258678
                    Al 19980107
                                       AU 1997-29604 19970524
    AU 9729604
                    A1 19990407
                                       EP 1997-923997 19970524
    EP 906381
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, SI, FI
    BR 9709825 A 19990810
                                       BR 1997-9825
                                                       19970524
    JP 2001501983
                    T2 20010213
                                        JP 1998-502169 19970524
                                       US 1998-202755 19981216
    US 6224641
                    B1 20010501
PRAI DE 1996-19624454 A 19960619
    DE 1996-19643719 A 19961023
                        19970227
    DE 1997-19707909 A
    WO 1997-EP2670 W
                          19970524
AB
    In a method for prodn. of a perfumed candle or other paraffin-based
    object with a proportion of a perfume, the perfume is dissolved in a
     solvent contg. an ester, esp. an org. ester such as a triglyceride, and
    the soln. is in turn added to or dissolved in paraffin. The perfume forms
    a solid soln. with the solvent; this soln. may contain a high proportion
    of perfume and is readily mixed homogeneously with powd. paraffin base.
    The powd. mixt. is formed into a candle or other object by compression.
    Thus, hardened palm oil (penetration 6 mm-1) contg. 30% essential oil
    was mixed 1:1 with paraffin paste to produce a product with penetration
     ~46 mm-1 at 30°.
    paraffin wax perfumed candle
   Palm oil
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
       (hardened; process for producing a paraffin-based object, esp. a
       perfumed candle)
ΙT
    Waxes
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
       (micro-; process for producing a paraffin-based object, esp. a perfumed
       candle)
ΤT
    Candles
     Perfumes
       (process for producing a paraffin-based object, esp. a perfumed
ΙT
    Paraffin waxes, biological studies
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Tallow
    RI: BUU Biological use, unclassified ; BIOL Biological study : USES
        process for producing a paraffin-based object, esp. a perfumed
       candle)
    Esters, biological studies
ΙT
    Glycerides, biological studies
    RL: BUU Biological use, unclassified:; BICL Biological study:; USES
        solvents; process for producing a paraffin-based object, esp. a
       perfumed candle)
    ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2001 ACS
Full-text
AN 1997:720577 HCAPLUS
   127:308624
    Wax-based candles comprising paraffin wax and an ester and/or
    ester-montan wax mixture, and manufacture of the wax, especially for
    candles
   Matzat, Norbert; Meyer, Gernot; Laudi, Rolf; Matthaei, Michael;
IN
    Hildebrand, Guenter; Starke, Claus
    Schuemann Sasol GmbH Co. KG, Germany
PΑ
   Neth. Appl., 11 pp.
    CODEN: NAXXAN
DT
    Patent
LA
    Dutch
    ICM C11C005-00
    ICS C08L091-06
    45-3 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
CC
FAN.CNT 1
    PATENT NO.
                                        APPLICATION NO. DATE
                   KIND DATE
     -----
                                         _____
                                         NL 1997-1005033 19970117
   NL 1005033
                    A1 19970722
                    C2 19980715
    NL 1005033
                     A1 19980429
                                        EP 1997-112397 19970718
    EP 838517
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO
                       19960120
PRAI DE 1996-19601998
    DE 1996-19644737
                          19961028
    In the candles, the paraffin wax component is of tech. quality and has
     f.p ≤55° and the ester component has f.p.
    \geq35°. This compn. causes candles with a relative large
     cross-sectional area to melt evenly when lit. A mixt. of paraffin having
    f.p 36^{\circ} with hardened palm oil (penetration 6/mm at 30^{\circ})
    in ratio 1:1 gave penetration 46/mm at 30^{\circ}.
    paraffin wax hardened palm oil candle; tallow paraffin wax candle;
    ester montan wax paraffin candle
    Isoalkanes
    RL: TEM (Technical or engineered material use); USES (Uses)
       (C16-45, admixts, with alkanes and esters and montan wax; for f.p.
       control for even melting at large-diam. candles)
TΤ
    Paraffin waxes, uses
    RL: TEM (Technical or engineered material use); USES (Uses)
       (admixts, with esters and montan wax; for f.p. control for even melting
       at large-diam. candles)
    Alkanes, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (admixts, with isoalkanes and esters and montan wax; for f.p. control
       for even melting at large-diam. candles)
    Esters, uses
    Glycerides, uses
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Montan wax

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Palm kernel oil
      Palm oil
    Rape oil
    Tallow
    RL: TEM (Technical or engineered material use); USES (Uses)
        admixts, with paraffin wax; for f.p. control for even melting at
       large-diam. candles
ΙT
    57-11-4, Octadecanoic acid, uses
    RL: TEM (Technical or engineered material use ; USES Uses)
       (palm, admixts, with paraffin wax; for f.p. control for even
       melting at large-diam. candles)
   ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2001 ACS
1.9
Full-text
AN 1997:720575 HCAPLUS
   127:308623
   Method and waxes for manufacturing candles
ΤI
IN Matzat, Norbert; Meyer, Gernot; Laudi, Rolf; Matthaei, Michael;
    Hildebrand, Guenter; Starke, Claus
   Schuemann Sasol GmbH Co. KG, Germany
PA
   Neth. Appl., 10 pp.
SO
    CODEN: NAXXAN
DT
    Patent
   Dutch
LA
    ICM C11C005-00
    ICS C08L091-06
   45-3 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
CC
FAN.CNT 1
                   KIND DATE
                                        APPLICATION NO. DATE
    PATENT NO.
    ______
                                         -----
   NL 1005021
                    A1 19970718
                                        NL 1997-1005021 19970116
                     C2 19980720
    NL 1005021
PRAI DE 1996-19601521
                          19960117
   In this method, in which the waxes comprise a no. of cryst. components,
    ≥1 of which has a fine-cryst. structure and ≥1 of which has
    a coarse-cryst. structure, the components are first mixed in liq. form,
    cooled at high temp, gradient such that essentially no segregation of the
    components occurs, after which the solidified material is processed to
    obtain the candles. A mixt. of 65% paraffin (m.p. ~57, softening
    point ~30°) and balance stearin (m.p. ~54°) was
    melted at 80°, solidified on a roller cooler, and processed to
    candles.
   cryst wax mixing melting cooling candle; paraffin stearin wax candle;
    hardened palm oil paraffin candle
   Fatty alcohols
    Microcrystalline waxes
    Paraffin waxes, uses
    RL: TEM (Technical or engineered material use); USES (Uses)
       (admixts. with coarse-cryst. waxes; segregation prevention in
       candle manuf. by rapid cooling of)
ΙT
    Fats and Glyceridic oils, uses
    Fish oils
    Tallow
    RL: TEM (Technical or engineered material use); USES (Uses)
       (admixts, with microcryst, waxes; segregation prevention in
       candle manuf. by rapid cooling of:
    RL: TEM (Technical or engineered material use); USES (Uses)
       (coarse-cryst., admixts. with microcryst. waxes; segregation prevention
       in candle manuf. by rapid cooling of)
```

RL: TEM (Technical or engineered material use); USES (Uses)

IT Candles

segregation prevention in candle manuf, by rapid cooling of molten mixts, of fine-cryst, and coarse-cryst, wax mixts, for

IT 11099-07-3, Stearin

RL: TEM (Technical or engineered material use); USES (Uses) (admixts, with microcryst, waxes; segregation prevention in candle manuf, by rapid cooling of)

L9 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2001 ACS

Full-text

- AN 1996:548846 HCAPLUS
- DN 125:193957
- TI Effect of temperature, light and gamma irradiation on quality of some common edible oils
- AU Ahmad, Taufiq; Sattar, Abdus; Atta, Shaheen
- CS Nucl. Inst. Food Agric., Peshawar, Pak.
- SO Sci. Int. (Lahore) (1995), 7(4), 597-598 CODEN: SINTE8; ISSN: 1013-5316
- DT Journal
- LA English
- CC 17-9 (Food and Feed Chemistry)
- Effect of temp., light and gamma irradn. was tested on some common edible oils e.g. soybean, sunflower, corn and palm products (palm olein and palm stearin). One set of samples was exposed to continuous fluorescent light (100 ft-candles) at ambient temps. (30-35°C) while the other was kept in the refrigerator. Detn. of peroxide and cholesterol values at successive intervals for a period of 5 mo revealed that there was a significant increase in peroxide values of the samples exposed to fluorescent light at room temp. than those in the refrigerator. Palm olein showed the greatest stability with mean POV 73.44 meq/kg followed by corn, sunflower and soybean oils with mean POV values of 105.37, 115.2 and 128.6 meq/kg resp. after 5 mo storage. A slight increase was noted in cholesterol % for both the storage conditions, but smallest increase was noted in palm olein samples. Treatment of palm products to irradn. (2 5-10.0 kGy) showed a regular increase in POV for palm olein (9.4 meq/kg to 13.0 meq/kg) and palm stearin (17.48 to 22.7 meq/kg). However, a clear decreasing trend was obsd. in the iodine values of these palm products on exposure to gamma irradn.
- ST temp gamma radiation light vegetable oil
- IT Gamma ray

Temperature effects, biological

(effect of temp., light and gamma radiation on quality of some common edible oils)

IT Corn oil

Soybean oil

Sunflower oil

RL: BPR (Biological process); BIOL (Biological study); PROC (Process) (effect of temp., light and gamma radiation on quality of some common edible oils)

IT Peroxides, formation (nonpreparative)

RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative) (effect of temp., light and gamma radiation on quality of some common edible oils)

IT Palm oil

RL: BPR (Biological process); BIOL (Biological study); PROC (Process) (oleins, effect of temp., light and gamma radiation on quality of some common edible oils)

IT Fats and Glyceridic oils

RL: BPR (Biological process); BIOL (Biological study); PROC Process) (vegetable, effect of temp., light and gamma radiation on quality of

some common edible oils)

ΙT

57-88-5, Cholesterol, biological studies

RL: BPR (Biological process); BIOL (Biological study); PROC (Process) seffect of temp., light and gamma radiation on quality of some common edible pils: ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2001 ACS <u>Full-text</u> AN 1994:137639 HCAPLUS DN 120:137639 Method of making a candle and composition thereof IN Lin, Kuo Lung Chen, Wen Chi, Taiwan PA Brit. UK Pat. Appl., 16 pp. SO CODEN: BAXXDU DT Patent LA English ICM C11C005-00 ICS C08L091-06 45-3 (Industrial Organic Chemicals, Leather, Fats, and Waxes) CCFAN.CNT 1 KIND DATE APPLICATION NO. DATE PATENT NO. GB 2262537 A1 19930623 GB 2262537 B2 19951004 _____ GB 1991-27167 19911220 PΙ The method providing a candle which releases reduced smoke, odor, and toxic particles on burning includes heat melting a butter oil and a solidified oil, mixing the butter oil and the solidified oil, and cooling and solidifying the mixt. to provide the wax of the candle, the butter oil having m.p. 35-37° and palmitic content ≤0.1% and the solidified oil having acid value <0.5, I value <2.0, sapon. value 195-198, m p. $60\pm1^{\circ}$, and impurity content <0.2%. A candle was prepd. from a butter oil contg. palm oil 50-58, coconut oil 30-35, soybean oil 5-8, cotton seed oil 5-8, flavor 2%, and other additives and a solidified oil contg. 80-90% palm oil and 10-20% soybean oil. candle manuf butter oil compn; solidified oil butter candle manuf ST Coconut oil Cottonseed oil Palm oil Soybean oil RL: USES (Uses) (butter oil contg., for manuf. of candles) Candles (manuf. of, from butter oil and solidified oil, with reduced smoke, odor, and toxic particles on burning) Palm oil TT RL: USES (Uses) (hydrogenated, butter oil contg., for manuf. of candles) ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2001 ACS L9 Full-text 1989 556417 HCAPLUS AN 111.156417 DN ΤI Paraffin wax substitute Phadoemchit, Tajchai; Boonvichitr, Saovaluck IN Thailand U.S., 3 pp. CODEN: USXXAM DT Patent LA English ICM C08L091-00 IC ICS C11C003-12

NCL	106244693									
33	45-3 Industrial Organic Chemicals, Leather, Fats, and Waxes									
FAN.	CNT 1 - PATENT NO. KIND DATE APPLICATION NO. DATE									
	PAISH NO. RING DAIS APPLICATION NO. DAIS									
PI AB	US 4842648 A 19890627 US 1987-112352 19871022 The title substitute, useful in the manuf. of shoe waxes, candles, waxed paper, etc., which is completely compatible with paraffin and hydrocarbon waxes, comprises a mixt. of 1-5% glyceryl monostearate (an emulsifying agent which reduces the amt. of cracking during molding) and refined, bleached, and the remainder as deodorized palm stearin. This compn. has m.p. 55-62° and I value 0-5.									
ST	paraffin wax substitute manuf; stearin glyceryl monostearate wax substitute									
ΙT	Waxes and Waxy substances									
	RL: USES (Uses)									
	glyceryl monostearate-refined palm stearin mixts. as,									
T. m.	compatible with or as substitutes for paraffin waxes)									
ΙT	Paraffin waxes and Hydrocarbon waxes, uses and miscellaneous RL: USES (Uses)									
	(substitutes for, refined palm stearin-glyceryl monostearate									
ΙT	mixts. as, manuf. of) 11099-07-3, Stearin									
* *	RL: USES (Uses)									
	(mixts, with glyceryl monostearate, as substitutes for paraffin waxes)									
ΙT	31566-31-1, Glyceryl monostearate									
	RL: USES (Uses)									
	(mixts. with refined and bleached and deodorized palm									
	stearin, as substitutes for paraffin waxes)									
L9	ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2001 ACS									
	-text									
AN	1988:633169 HCAPLUS									
DN	109:233169									
ΤI	Manufacture of wax from palm oil									
IN	Tachai, Fuadonchitsuto									
PA SO	Bangkok Realty Co. Ltd., Thailand Jpn. Kokai Tokkyo Koho, 4 pp.									
30	CODEN: JKXXAF									
DT	Patent									
LA	Japanese									
IC	ICM C11B011-00									
CC	45-3 (Industrial Organic Chemicals, Leather, Fats, and Waxes)									
	Section cross-reference(s): 43									
FAN.	CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE									
	TATENT NO. KIND DATE MEDICATION NO. DATE									
ΡI	JP 63168494 A2 19880712 JP 1986-316033 19861227									
AB	Wax suitable for use in prepg. wax paper is manufd. by hydrogenating									
	palm stearin and optionally beef tallow to an iodine no. (I) of 1-5.									
	Hydrogenation of palm stearin (I 37-42, m.p. 50-52°) to I 1-5									
C.m	provided a product useful for prepg. candles, matches, and wax paper. palm stearin hydrogenation wax; candle hydrogenated palm stearin;									
ST	match hydrogenated palm stearin; paper wax hydrogenated palm stearin									
ΙT	Tallow									
	RL: USES (Uses)									
	(hydrogenation of palm oil and, for waxes)									
ΙT	Palm oil									
	RL: RCT (Reactant)									
	(hydrogenation of, for waxes)									
ΙT	Hydrogenation									
	(of palm oil, for waxes)									

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Waxes and Waxy substances
    RL: IMF (Industrial manufacture); PREP (Preparation)
       (preph. of, by hydrogenation of palm oil)
    1333-74-0
    RL: USES (Uses)
       hydrogenation, of palm oil, for waxes
   ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2001 ACS
AN
    1988:495094 HCAPLUS
DN
    109:95094
ΤI
    Hydrogenation of palm stearin
    Phadoemchit, Tajchai
IN
   Bangkok Realty Co. Ltd., Thailand
ΡÀ
   Brit. UK Pat. Appl., 8 pp.
SC
    CODEN: BAXXDU
DT
   Patent
LA English
    ICM C11C003-12
    45-3 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
CC
FAN.CNT 1
                                         APPLICATION NO. DATE
    PATENT NO.
                   KIND DATE
                    ----
                                         _____
    GB 2197337 A1 19880518
                                    GB 1986-27486 19861117
PΤ
    Wax useful in making candles or match heads is obtained by hydrogenating
    palm stearin or its mixt. with cow tallow to iodine value 1-5.
    melted palm stearin was hydrogenated at 170-180°, 20-140 psi H
    using a Ni catalyst to give a product with iodine value 4.
    palm stearin hydrogenation; cow tallow hydrogenation
ST
    Palm oil
TT
    RL: RCT (Reactant)
       (hydrogenation of, for wax used in candles or match heads)
    Hydrogenation
       (of palm stearin, for wax used in candles or match
       heads)
IΤ
    Fatty acids, reactions
     RL: RCT (Reactant)
       (palm-oil, hydrogenation of, for wax used in candles
       or match heads)
     Fatty acids, reactions
     RL: RCT (Reactant)
       (tallow, hydrogenation of, for wax used in candles or match
       heads)
ΤТ
    7440-02-0, Nickel, uses and miscellaneous
     RL: CAT (Catalyst use); USES (Uses)
       (catalysts, for hydrogenation of palm stearin and tallow)
ΙT
    1333-74-0
     RL: USES (Uses)
        (hydrogenation, of palm stearin, for wax used in
        candles or match heads)
   ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2001 ACS
1.9
<u>Full-text</u>
    1976:404318 HCAPLUS
AN
DN
    85:4318
    Media, shade and fertilizer influence production of the areca palm,
     Chrysalidocarpus lutescens Wendl
    Poole, Richard T.; Conover, Charles A.
     Agric. Res. Cent., Inst. Food Agric. Sci., Apopka, Fla., USA
    Proc. Fla. State Hortic. Soc. (1976), 88, 603-5
     CODEN: PFSHA7
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DΤ

Journal

LA English
CC 19-4 Fertilizers, Soils, and Plant Nutrition;
AB The best title plants were produced under 40% shade :6000-7000 ft-candles; while growing in a medium or 3 parts Florida peat and 1 part mason sand and fertilized 3 times with 0.5 oz 18-6-12 Osmocote 8 in. pot at ~5-month intervals.

ST areca palm fertilizer
Chrysalidocarpus lutescens (fertilizer expts. with, with nitrogen and phosphorus and potassium)
IT Fertilizer experiment (with nitrogen and phosphorus and potassium, with areca palm)

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